

EXHIBIT A

(ACCOMPANYING 6/29/2006 RESPONSE FOR APPLICATION NO. 10/817,308)

COPIES OF ASSIGNMENT DOCUMENTS
FOR APPLICATION NOS. 10/632,767 AND 10/817,308



UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

FEBRUARY 25, 2004

PTAS



102523215A

LEE & HAYES, PLLC
STEVEN J. SPELLMAN
421 WEST RIVERSIDE AVENUE
SUITE 500
SPOKANE, WA 99201

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 08/01/2003

REEL/FRAME: 014365/0921
NUMBER OF PAGES: 5

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

GRIGOROVITCH, ALEXANDRE V.

DOC DATE: 07/31/2003

ASSIGNOR:

CHOI, YEJIN

DOC DATE: 07/31/2003

ASSIGNOR:

DE CARVALHO, THALES PAULO

DOC DATE: 07/31/2003

ASSIGNEE:

MICROSOFT CORPORATION
ONE MICROSOFT WAY
REDMOND, WASHINGTON 98052-6399

SERIAL NUMBER: 10632767
PATENT NUMBER:

FILING DATE:
ISSUE DATE:

014365/0921 PAGE 2

MARCUS KIRK, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

08-13-2003



102523215

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Alexandre V. Grigorovitch
Yejin Choi
Thales Paulo de CarvalhoAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

Execution Date: 7/31/2003

2. Name and address of receiving party(ies)

Name: Microsoft Corporation

Internal Address: _____

Street Address: One Microsoft Way

City: Redmond State: WA Zip: 98052-6395

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: 8/1/2003

A. Patent Application No.(s)

B. Patent No.(s)

18/632767

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Steven J. Spellman; 45,124

Internal Address: Lee & Hayes, PLLC

Street Address: 421 West Riverside Avenue

Suite 500

City: Spokane State: WA Zip: 99201

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41).....\$ 40.00

- ☐ Enclosed
☒ Authorized to be charged to deposit account

8. Deposit account number: 12-0769

(Attach duplicate copy of this page if paying by deposit account)

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Steven J. Spellman; 45,124

Name of Person Signing

Signature

8/1/03

Date

Total number of pages including cover sheet, attachments, and documents: 5

16235 U.S. PTO
10/632767

08/01/03

08/12/2003 ECDOPER 00000058 120769 10632767

01 FC:0021 40.00 DA

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Serial Number.....
 Filing Date..... Executed Concurrently Herewith
 Inventorship..... Grigorovitch et al.
 Applicant..... Microsoft Corporation
 Attorney's Docket No. MS1-1541US
 MSDocket No..... 302026.1
 Title: Sparse Caching for Streaming Media

PATENT ASSIGNMENT

PARTIES TO THE ASSIGNMENT

Assignor(s):

Alexandre V. Grigorovitch
 7250 Old Redmond Rd #149
 Redmond, WA 98052

Yejin Choi
 817 144th Avenue N.E., Apt. B-2
 Bellevue, WA 98007

Thales Paulo de Carvalho
 14530 NE 35th St, E-304
 Bellevue, WA 98007

Assignee:

Microsoft Corporation
 Corporation in the State of Washington
 One Microsoft Way
 Redmond, WA 98052

AGREEMENT

WHEREAS, ASSIGNOR(S) (listed above) are inventor(s) of an invention entitled "Sparse Caching for Streaming Media," as described and claimed in the specification forming part of an application for United States letters patent referenced above;

WHEREAS, Microsoft Corporation (hereinafter referred to as ASSIGNEE), a corporation of the State of Washington having a place of business at One Microsoft Way, Redmond, WA 98052, is desirous of acquiring the entire right, title and interest in and to the invention and in

and to any letters patent that may be granted therefor in the United States and in any and all foreign countries;

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR(S) hereby sell, assign and transfer unto ASSIGNEE, the entire right, title and interest in and to said invention, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all divisions, reissues and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns for their use and benefit and of their successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNOR(S) had this assignment, transfer and sale not been made. ASSIGNOR(S) hereby authorize and request the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNOR(S) agree to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said invention, for litigation regarding said letters patent, or for the purpose of protecting title to said invention or letters patent therefor.

07/31/03

Date



Alexandre V. Brigorovitch

Date

Yejin Choi



07/31/2003

Date

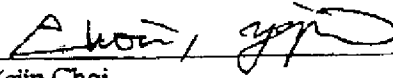
Thales Paulo de Carvalho

Date

07/31/2003

Date

Alexandre V. Grigorovitch



Yejin Choi

Date

Thales Paulo de Carvalho



DMH/CKB

L

UNITED STATES PATENT AND TRADEMARK OFFICE

MS-1944

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

SEPTEMBER 28, 2004

PTAS



102718145A

LEE & HAYES, PLLC
DAVID M. HUNTLEY, REG. NO. 40,309
421 WEST RIVERSIDE AVENUE
SUITE 500
SPOKANE, WA 99201

UNITED STATES PATENT AND TRADEMARK OFFICE
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RECORDATION DATE: 03/31/2004

REEL/FRAME: 015192/0321

NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

SCHMIDT, BRIAN L.

DOC DATE: 03/31/2004

ASSIGNOR:

LANGE, JONATHAN E.

DOC DATE: 03/31/2004

ASSIGNOR:

OSBORNE, TIMOTHY R.

DOC DATE: 03/31/2004

ASSIGNEE:

MICROSOFT CORPORATION
ONE MICROSOFT WAY
REDMOND, WASHINGTON 98052-6399

015192/0321 PAGE 2

SERIAL NUMBER: 10817308

FILING DATE: 03/31/2004 -

PATENT NUMBER:

ISSUE DATE:

TITLE: STRATEGIES FOR READING INFORMATION FROM A MASS STORAGE MEDIUM USING
A CACHE MEMORY

JOANN STEWART, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

04-09-2004

EV369764068

Form PTO-1595

(Rev. 03/01)

OMB No. 0651-0027 (exp. 5/31/2002)

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102718145

U.S. DEPARTMENT OF COMMERCE
U.S. Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

3-31-04
Brian L. Schmidt
Jonathan E. Lange
Timothy R. Osborne

2. Name and address of receiving party(ies)

Name: Microsoft Corporation

Internal Address: _____

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

Street Address: One Microsoft Way

City: Redmond State: WA Zip: 98052-6399

Execution Date: 03/31/2004

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

10817308
If this document is being filed together with a new application, the execution date of the application is: 03/31/2004

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: David M. Huntley, Reg. No. 40,309

Internal Address: Lee & Hayes, PLLC

Street Address: 421 West Riverside Avenue

Suite 500

City: Spokane State: WA Zip: 99201

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41).....\$ 40.00

- ☐ Enclosed
☒ Authorized to be charged to deposit account

8. Deposit account number: 12-0769

(Attach duplicate copy of this page if paying by deposit account)

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

David M. Huntley, Reg. No. 40,309

Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments, and documents: 3

Mail documents to be recorded with required cover sheet information to:

Mail Stop Assignment Recordation Services
Alexandria, VA 22313-1450

04/08/2004 DBYRNE 00000120 120769 10817308

01 FC:8021 40.00 BA

U.S. PTO
10/817308
033104

EV369764068

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Serial Number.....
Filing Date..... Executed Concurrently Herewith
Inventorship.....Schmidt et al.
Applicant.....Microsoft Corporation
Attorney's Docket No.MS1-1944US
MSDocket No.....307459.01
Title: Strategies for Reading Information from a Mass Storage Medium Using a Cache Memory

PATENT ASSIGNMENT

PARTIES TO THE ASSIGNMENT

Assignor(s):

Brian L. Schmidt
447 140th Avenue NE
Bellevue, WA 98005

Jonathan E. Lange
12928 NE 26th Place
Bellevue, WA 98005

Timothy R. Osborne
16625 178th Avenue NE
Woodinville, WA 98072

Assignee:

Microsoft Corporation
Corporation in the State of Washington
One Microsoft Way
Redmond, WA 98052

AGREEMENT

WHEREAS, ASSIGNOR(S) (listed above) are inventor(s) of an invention entitled "Strategies for Reading Information from a Mass Storage Medium Using a Cache Memory," as described and claimed in the specification forming part of an application for United States letters patent referenced above;

WHEREAS, Microsoft Corporation (hereinafter referred to as ASSIGNEE), a corporation of the State of Washington having a place of business at One Microsoft Way, Redmond, WA

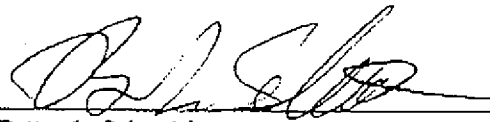
98052, is desirous of acquiring the entire right, title and interest in and to the invention and in and to any letters patent that may be granted therefore in the United States and in any and all foreign countries;

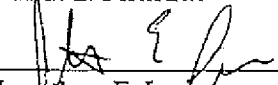
NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR(S) hereby sell, assign and transfer unto ASSIGNEE, the entire right, title and interest in and to said invention, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all divisions, reissues and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns for their use and benefit and of their successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNOR(S) had this assignment, transfer and sale not been made. ASSIGNOR(S) hereby authorize and request the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNOR(S) agree to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said invention, for litigation regarding said letters patent, or for the purpose of protecting title to said invention or letters patent therefore.

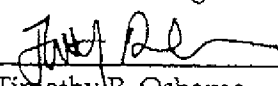
March 31, 2004
Date

March 31, 2004
Date

31 ~~Dec~~ MARCH 30, 2004
Date


Brian L. Schmidt


Jonathan E. Lange


Timothy R. Osborne